

SEQUENCE LISTING

<110> Keler, Tibor
Deo, Yashwant

<120> HUMAN MONOCLONAL ANTIBODIES TO HER2/NEU

<130> MXI-160US

<140> US 10/031,722

<141> 2002-01-18

<150> PCT/US00/20272

<151> 2000-07-25

<150> US 60/146,313

<151> 1999-07-29

<150> US 60/188,539

<151> 2000-03-10

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<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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gcc	atg	acc	tgg	gtc	cgc	cag	gct	cca	ggg	aag	ggg	ctg	gag	tgg	gtc	144
Ala	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
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Ser	Ala	Ile	Ser	Gly	Ser	Gly	Tyr	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Glu	
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Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
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ctg	caa	atg	aac	agc	ctg	aga	gcc	gag	gac	acg	gcc	gta	tat	tac	tgt	288
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
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 35 40 45
 Ser Ala Ile Ser Gly Ser Gly Tyr Ser Thr Tyr Tyr Ala Asp Ser Glu
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
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 tta gcc tgg tat cag cag aaa cca gag aaa gcc cct aag tcc ctg atc 144
 Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
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tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc 192
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
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agt gga tct ggg aca gat ttc act ctc acc atc agc agc ctg cag cct 240
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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gaa gat ttt gca act tat tac tgc caa cag tat aat agt tac ccg tac 288
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
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 <213> Homo sapiens

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 35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
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Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
	65				70				75					80			
ctg	caa	atg	aac	agt	ctg	aga	gcc	gag	gac	acg	gct	gtg	tat	tac	tgt	288	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
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gcg	aga	aac	tat	ggg	ttg	ggg	agt	tat	tat	aac	tac	ttt	gac	ttc	tgg	336	
Ala	Arg	Asn	Tyr	Gly	Leu	Gly	Ser	Tyr	Tyr	Asn	Tyr	Phe	Asp	Phe	Trp		
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ggc	cag	gga	acc	ctg	gtc	acc	gtc	tcc	tca							366	
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<212> PRT

<213> Homo sapiens

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Ala	Val	Ile	Trp	Tyr	Asp	Gly	Ser	Asn	Lys	Tyr	His	Ala	Asp	Ser	Val		
		50				55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
	65				70				75					80			
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
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Ala	Arg	Asn	Tyr	Gly	Leu	Gly	Ser	Tyr	Tyr	Asn	Tyr	Phe	Asp	Phe	Trp		
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gac aga gtc acc atc act tgt cgg gcg agt cat ggt att agc agc tgg      96
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Ser Ser Trp
                20                      25                      30

tta gcc tgg tat cag cag aaa cca gag aaa gcc cct aag tcc ctg atc     144
Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
                35                      40                      45

tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc     192
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
                50                      55                      60

agt gga tct ggg aca gat ttc act ctc acc atc agc agc ctg cag cct     240
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
    65                      70                      75                      80

gaa gat ttt gca act tat tac tgc caa cag tat aat agt tac ccg tac     288
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
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Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
    35                      40                      45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                      55                      60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
    65                      70                      75                      80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr

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85

90

95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
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 gtc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
 Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 gca gtt ata tgg tat gat gga agt aat aaa tac tat gca gac tcc gtg 192
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 gcg ctt atg gtt cgg gga ctt att ata acg ggg tac ttt gac tac tgg 336
 Ala Leu Met Val Arg Gly Leu Ile Ile Thr Gly Tyr Phe Asp Tyr Trp
 100 105 110
 ggc cag gga acc ctg gtc acc gtc tcc tca 366
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 35 40 45

Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

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 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc atc 144
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

tat gat gca tcc aac agg gcc act ggc atc cca gcc agg ttc agt ggc 192
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag cct 240
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

gaa gat ttt gca gtt tat tac tgt cag cag cgt agc aac tgg cct ccg 288
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
 85 90 95

tac act ttt ggc cag ggg acc aag ctg gag atc aaa 324
 Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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<210> 12
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 <212> PRT
 <213> Homo sapiens

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 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
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Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
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Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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<223> Description of Artificial Sequence: cloning vector

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